BRADFORD WHITE®
WATER HEATERS

Commercial Flue Damper Electronic Ignition Energy Saver Gas Water Heater

Photo is of
D-75T-125-3N

FEATURING:

THE BRADFORD WHITE ICON HD
COMMERCIAL CONTROL SYSTEM

The Commercial Flue Damper Models feature:

- **ICON HD™—**Intelligent proven design combines temperature control, diagnostic codes, and system ignition functions into a single control board with a digital LCD display. Control panel cover tilts down for ease of wiring and service.
- **Operation Mode—**Two different digitally displayed operation modes have the capability of adjusting the temperature setting up to 180°F (82°C), and adjusting the degree setting (ºF to ºC, or ºC to ºF).
- **Service Mode—**Eight different digitally displayed service modes can be easily cycled through by pressing the select button. There is the capability of adjusting the temperature setting up to 180°F (82°C), adjusting the degree setting (ºF to ºC, or ºC to ºF), locking the maximum temperature setting that can be adjusted in operation mode, displaying the average water temperature (if water heater has two sensors), displaying the upper temperature sensor, displaying the lower temperature sensor, displaying the flame current of the pilot flame, and displaying diagnostic codes.
- **Electronic Ignition—**High voltage, low current electricity is sent to the pilot electrode initiating a spark to ignite the pilot gas. This results in savings of pilot gas during stand-by periods because the pilot flame only operates when there's a call for heat.
- **Automatic Flue Damper—**Reduces stand-by loss, saving gas consumption and improving overall efficiency.
- **Factory Installed Hydrojet® Sediment Reduction System—**Cold water inlet sediment reducing device helps prevent sediment build up in the tank.
- **Vitraglas® Lining—**Bradford White tanks are lined with an exclusively engineered enamel formula that provides superior tank protection from the highly corrosive effects of hot water. This formula (Vitraglas®) is fused to the steel surface by firing at a temperature of over 1600ºF (871ºC).
- **Non-CFC Foam Insulation—**Covers the sides and top of tank, reducing the amount of heat loss. This results in less energy consumption, improved operation efficiencies and jacket rigidity.
- **Water Connections—**Factory installed true dielectric waterway fittings extend water heater life and eases installation. Multiple water connection locations allow for greater installation flexibility.
- **Hand Hole Cleanout—**Allows inspection of tank interior and facilitates the removal of sediment deposits.
- **E.C.O.—**An automatic re-set Energy Cut Off (E.C.O) shuts off all gas in event of an overheat condition. This automatically re-sets when operation conditions are back to normal.
- **Magnesium Anode Rods—**Provide added protection against corrosion for long trouble-free service.
- **Sanitizing Capability—**Temperature setting up to 180°F (82°C).
- **ASME Code Available on all Models Above 200,000 BTU/Hr**.
- **NSF Construction Available**.
- **Low NOx Construction Available**.
- **North Carolina Code Compliant**.
- **T&P Relief Valve—**Installed.
- **Brass Drain Valve—**Tamper proof.
- **Design certified by CSA International**.

AHRI · ASME HLW · NSF · CSA LLC - Low Lead Content · CSA · CSA

3-Year Limited Tank Warranties / 1-Year Limited Warranty on Component Parts.

For more information on warranty, please visit www.bradfordwhite.com

For products installed in USA, Canada and Puerto Rico. Some states do not allow limitations on warranties. See complete copy of the warranty included with the heater.

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,682,666; 7,634,976; 5,660,165; 5,954,492; 6,056,542; 6,935,280; 5,372,185; 5,485,879; 5,574,822; 7,971,560; 7,992,526; 6,684,821; 6,442,178; 7,334,419; 7,866,168; 7,270,087; 7,007,748; 5,596,952; 6,142,216; 7,699,026; 5,341,770; 7,337,517; 7,665,211; 7,665,210; 7,063,132; 7,063,133; 7,559,293; 7,900,589; 5,943,984; 8,082,888; 5,988,117; 7,621,238; 7,650,859; 5,761,379; 7,409,925; 5,277,171; 8,146,772; 7,458,341; 2,262,174. OTHER U.S. AND FOREIGN PATENT APPLICATIONS PENDING. CURRENT CANADIAN PATENTS: 2,314,845; 2,504,824; 2,108,186; 2,143,031; 2,409,271; 2,548,958; 2,112,515; 2,476,685; 2,239,007; 2,092,105; 2,107,012. **Vitraglas® and Hydrojet® are registered trademarks of Bradford White® Corporation.**

Electronic Ignition Energy Saver Models

NATURAL GAS AND LIQUID PROPANE GAS

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed

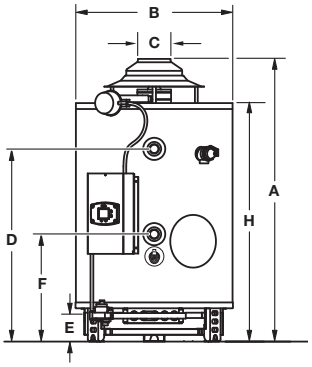
Model Number	Capacity U.S. Gal.	Capacity Imp. Gal.	Nat. BTU/Hr. Input	LP BTU/Hr. Input	GPH Recovery at Degree Rise* 40°F	100°F	140°F	A Top Vent Height in.	B Jacket Dia. in.	C Vent Dia. in.	D Front Hot Water Conn. in.	E Floor to Gas Conn. in.	F Front Cold Water Conn. in.	H Floor to Top of Heater in.	J Floor to Top Water Conn. in.	Water Conn. in.	Gas Conn. Dia.	Relief Valve Open. in.	Approx. Shipping Weight (lbs.) Std.	ASME
D-38T-155-3N+	38	31	155,000	155,000	376	150	107	51	28 1/4	6	35	4 5/8	19 3/8	43 1/2	–	1 1/2 (F)	3/4	3/4	438	–
D-75T-125-3N	75	62	125,000	125,000	303	121	86	72 1/4	28 1/4	5	54 1/2	4 3/4	34	65	67 1/8	1 1/2 (T&F)	3/4	3/4	520	–
D-75T-160-3N	75	62	160,000	155,000	389	155	111	72 1/4	28 1/4	6	54 1/2	4 3/4	34	65	67 1/8	1 1/2 (T&F)	3/4	3/4	520	–
D-80T-180-3N	80	67	180,000	180,000	436	175	124	71 7/8	28 1/4	6	56	4 3/4	19 1/2	64 1/2	66 1/4	1 1/2 (T&F)	3/4	3/4	540	–
D-80T-199-3N	80	67	199,999	199,999	485	194	139	71 7/8	28 1/4	6	56	4 3/4	19 1/2	64 1/2	66 1/4	1 1/2 (T&F)	3/4	3/4	540	–
D-80T-250-3N(A)	80	67	250,000	235,000	606	242	173	71 7/8	28 1/4	6	56	4 3/4	19 1/2	64 1/2	66 1/4	1 1/2 (T&F)	3/4	1	540	590
D-100T-199-3N	98	82	199,999	199,999	485	194	139	83 3/8	28 1/4	6	67	4 3/4	19 1/2	75 1/2	77 1/4	1 1/2 (T&F)	3/4	3/4	610	–
D-100T-250-3N(A)	98	82	250,000	235,000	606	242	173	83 3/8	28 1/4	6	67	4 3/4	19 1/2	75 1/2	77 1/4	1 1/2 (T&F)	3/4	1	610	690
D-75T-300-3N(A)	75	62	300,000	300,000	727	291	208	74 3/8	28 1/4	7	54 1/8	10 1/2	29	65 3/4	–	1 1/2 (F)	3/4	1	590	645
D-65T-370-3N(A)	65	54	370,000	370,000	897	359	256	73 1/4	28 1/4	8	54 1/8	10 1/2	29	64 3/4	–	1 1/2 (F)	1(N) 3/4 (LP)	1	665	720
D-65T-399-3N(A)**	65	54	399,999	399,999	970	388	277	73 1/4	28 1/4	8	54 1/8	10 1/2	29	64 3/4	–	1 1/2 (F)	1(N)	1	665	720
D-80T-425-3N(A)	80	67	425,000	425,000	1030	412	294	82 3/4	28 1/4	10	64 1/2	10 1/2	29	75 1/2	–	1 1/2 (F)	1(N) 3/4 (LP)	1	750	800
D-80T-505-3N(A)	80	67	505,000	505,000	1178	489	337	82 3/4	28 1/4	10	64 1/2	10 1/2	29	75 1/2	–	1 1/2 (F)	1(N) 3/4 (LP)	1	750	800
D-100S-199-3N	100	83	199,999	199,999	485	194	139	76 3/4	28 1/4	6	60 3/8	4 5/8	20 3/4	67 7/8	70	1 1/2 (T&F)	3/4	3/4	667	–
D-100S-250-3N(A)	100	83	250,000	250,000	606	242	173	76 3/4	28 1/4	6	60 3/8	4 5/8	20 3/4	67 7/8	70	1 1/2 (T&F)	3/4	1	667	702
D-100L-199-3N	100	83	199,999	199,999	485	194	139	75	30 1/4	6	56 1/2	4 1/2	23 1/2	64 3/4	67	1 1/2 (T&F)	3/4	3/4	725	–
D-100L-250-3N(A)	100	83	250,000	250,000	606	242	173	75	30 1/4	6	56 1/2	4 1/2	23 1/2	64 3/4	67	1 1/2 (T&F)	3/4	1	725	765
D-100L-270-3N(A)**	100	83	270,000	270,000	655	262	187	75	30 1/4	6	56 1/2	4 1/2	23 1/2	64 3/4	67	1 1/2 (T&F)	3/4	1	725	765
D-100L-300-3N(A)	100	83	300,000	300,000	727	291	208	75 3/8	30 1/4	7	56 1/2	4 1/2	23 1/2	64 3/4	67	1 1/2 (T&F)	3/4	1	725	765
D-80L-399-3N(A)	80	67	399,999	375,000	970	388	277	71 1/2	30 1/4	8	51 1/2	10 1/2	23 1/2	60 1/4	–	1 1/2 (F)	1(N) 3/4 (LP)	1	800	835
D-80L-450-3N(A)	80	67	450,000	425,000	1091	436	312	69	30 1/4	10	51 1/2	10 1/2	23 1/2	60 1/4	–	1 1/2 (F)	1(N) 3/4 (LP)	1	800	835
D-80L-505-3N(A)	80	67	505,000	475,000	1224	489	350	69	30 1/4	10	51 1/2	10 1/2	23 1/2	60 1/4	–	1 1/2 (F)	1(N) 3/4 (LP)	1	800	835

Model Number	Capacity Liters	Nat. kW/Hr. Input	LP kW/Hr. Input	LPH Recovery at Degree Rise* 22°C	56°C	78°C	A Top Vent Height mm.	B Jacket Dia. mm.	C Vent Dia. mm.	D Front Hot Water Conn. mm.	E Floor to Gas Conn. mm.	F Front Cold Water Conn. mm.	H Floor to Top of Heater mm.	J Floor to Top Water Conn. mm.	Water Conn. mm.	Gas Conn. Dia.	Relief Valve Open. mm.	Approx. Shipping Weight (kg.) Std.	ASME
D-38T-155-3N+	144	45.4	45.4	1391	556	397	1295	718	152	889	117	492	1105	–	38 (F)	19	19	199	–
D-75T-125-3N	284	36.6	36.6	1147	458	326	1835	718	127	1384	121	864	1651	1705	38 (T&F)	19	19	236	–
D-75T-160-3N	284	46.8	45.4	1431	572	409	1835	718	152	1384	121	864	1651	1705	38 (T&F)	19	19	236	–
D-80T-180-3N	303	52.7	52.7	1650	662	469	1826	718	152	1422	121	495	1638	1683	38 (T&F)	19	19	245	–
D-80T-199-3N	303	58.6	58.6	1836	734	526	1826	718	152	1422	121	495	1638	1683	38 (T&F)	19	19	245	–
D-80T-250-3N(A)	303	73.2	68.9	2294	916	655	1826	718	152	1422	121	495	1638	1683	38 (T&F)	19	25	245	268
D-100T-199-3N	371	58.6	58.6	1836	734	526	2118	718	152	1702	121	495	1918	1962	38 (T&F)	19	19	277	–
D-100T-250-3N(A)	371	73.2	68.9	2294	916	655	2118	718	152	1702	267	495	1918	1962	38 (T&F)	19	25	277	313
D-75T-300-3N(A)	284	87.9	87.9	2752	1101	787	1889	718	178	1375	267	737	1670	–	38 (F)	19	25	268	393
D-65T-370-3N(A)	246	108.4	108.4	3395	1359	969	1861	718	203	1375	267	737	1645	–	38 (F)	25(N) 19 (LP)	25	302	327
D-65T-399-3N(A)**	246	117.2	117.2	3671	1469	1048	1861	718	203	1375	267	737	1645	–	38 (F)	25	25	302	327
D-80T-425-3N(A)	303	124.5	124.5	3899	1559	1113	2102	718	254	1638	267	737	1918	–	38 (F)	25(N) 19 (LP)	25	340	363
D-80T-505-3N(A)	303	148.0	148.0	4459	1783	1276	2102	718	254	1638	267	737	1918	–	38 (F)	25(N) 19 (LP)	25	340	363
D-100S-199-3N	379	58.6	58.6	1836	734	526	1949	718	152	1534	114	527	1724	1778	38 (T&F)	19	19	302	–
D-100S-250-3N(A)	379	73.2	73.2	2294	916	655	1949	718	152	1534	114	527	1724	1778	38 (T&F)	19	25	302	318
D-100L-199-3N	379	58.6	58.6	1836	734	526	1905	768	152	1435	114	597	1645	1702	38 (T&F)	19	19	329	–
D-100L-250-3N(A)	379	73.2	73.2	2294	916	655	1905	768	152	1435	114	597	1645	1702	38 (F)	19	25	329	347
D-100L-270-3N(A)**	379	79.0	79.0	2479	992	708	1915	768	152	1435	114	597	1645	1702	38 (F)	19	25	329	347
D-100L-300-3N(A)	379	87.9	87.9	2752	1101	787	1905	768	178	1435	114	597	1645	1702	38 (F)	19	25	329	347
D-80L-399-3N(A)	303	117.2	109.9	3671	1469	1048	1816	768	203	1308	267	597	1530	–	38 (F)	25(N) 19 (LP)	25	363	379
D-80L-450-3N(A)	303	131.8	124.6	4129	1650	1181	1753	768	254	1308	267	597	1530	–	38 (F)	25(N) 19 (LP)	25	363	379
D-80L-505-3N(A)	303	148.0	139.2	4633	1851	1325	1753	768	254	1308	267	597	1530	–	38 (F)	25(N) 19 (LP)	25	363	379

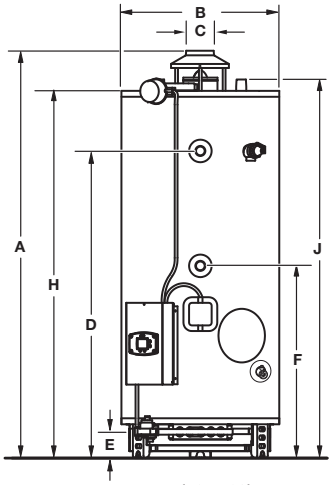
(A) = ASME Code Available
(F) = Front Water Connection
(T) = Top Water Connection
** = Available in Natural Gas Only
\+ = Fiberglass Insulation
For Propane (LP) Gas models change suffix "N" to "X".
220V/50Hz Available - Consult factory.

* Recoveries are based on Natural Gas Input and 80% Thermal Efficiency.
Low NOx models are not available for inputs over 399,999 BTU/Hr.
For Low NOx compliance, place an "E" following the BTU input identifier of the model number.
Example: D-75T-125**E**-3N
Amperage Draw = .5 for damper models/less than 4 for induced draft models.
Power Vent Kits – available for inputs from 125,000 to 505,000 BTU/Hr.
For 5 year models change suffix from "3" to "5".

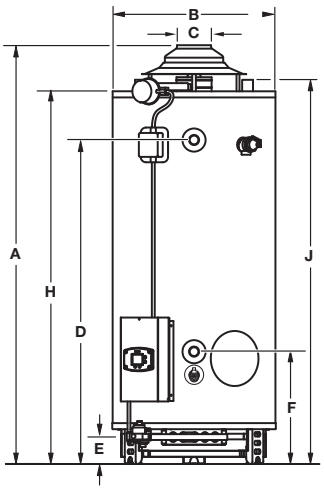
Commercial Gas Water Heater



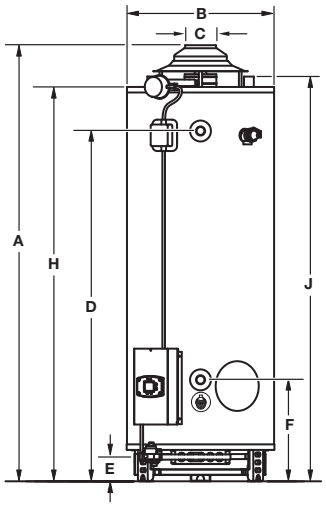
Model D-38T-155



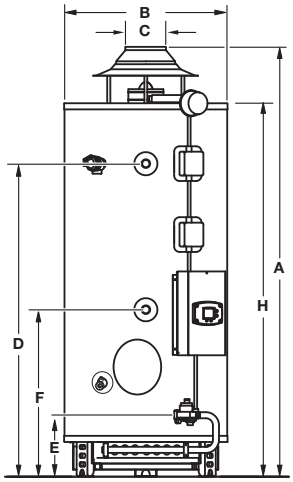
Model D-75T-(125,160)



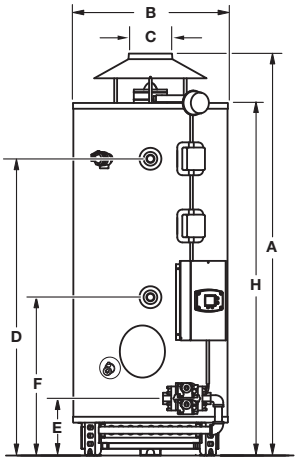
Model D-80T-(180,199,250)



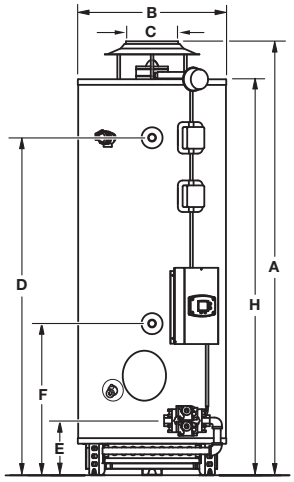
Model D-100T-(199,250)



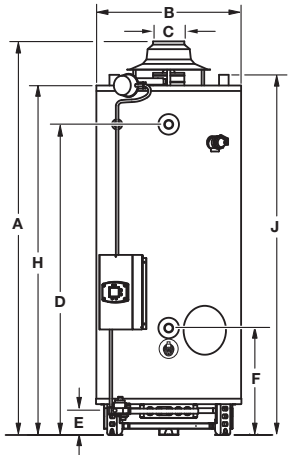
Model D-75T-300



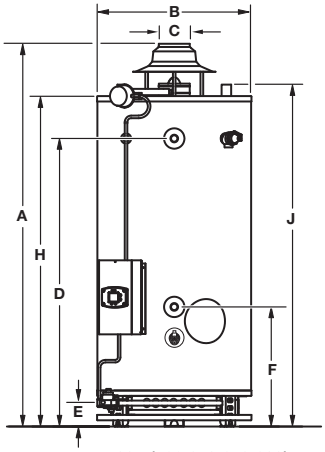
Model D-65T-(370,399)



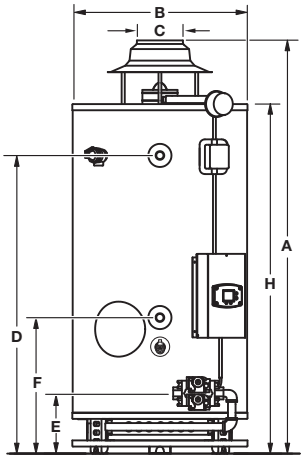
Model D-80T-(425,505)



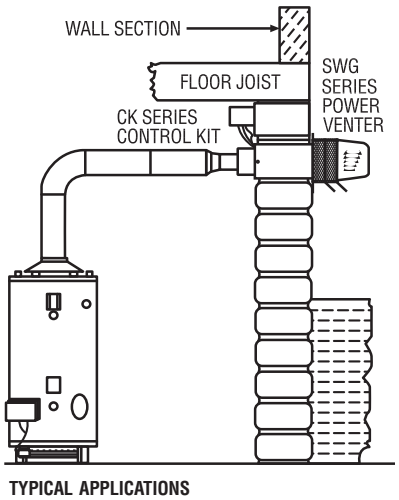
Model D-100S-(199,250)



Model D-100L-(199,250,270,300)



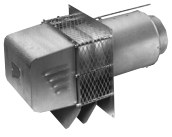
Model D-80L-(399,450,505)



TYPICAL APPLICATIONS

Optional Power Vent Kits – available for inputs from 125,000 to 505,000 BTU/Hr.

BTU Input Range	**Kit Number**
125,000 to 290,000 BTU/Hr.:	239-81764-00
300,000 to 399,999 BTU/Hr.:	239-81766-00
425,000 to 505,000 BTU/Hr.:	239-82148-00



Commercial Gas Water Heater

Sample Specification

The water heater shall be a Bradford White model with a rated storage capacity of not less than_____gallons (_____liters), a minimum gas input of _____BTU/Hr. (_____ kW), a minimum recovery of _____GPH (_____ LPH). The tank shall be Vitraglas® lined and have a bolted hand hole cleanout. A digital LCD display shall be integrated into the front control box, and the control shall be an adjustable electronic thermostat to any temperature up to 180ºF (85°C) must have an automatic re-set Energy Cut-off (E.C.O), which shuts off all gas in an event of a overheat condition. The tank shall have _____magnesium anode rods installed in separate tank head couplings. The heater shall have Non-CFC foam insulation, electronic ignition, and come equipped with an ASME rated T&P relief valve, a cold water inlet Hydrojet® Sediment Reduction System, and a automatic flue damper (115V AC required). It shall be design certified by CSA International for 180ºF (82ºC) application, either with or without a separate storage tank, and comply with state and local codes and ordinances.

General

All gas water heaters are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All models are design certified by CSA International (formerly AGA/CGA), ANSI standard Z-21.10.3, for up to 180°F (82°C) application as an Automatic Storage Heater, and an Automatic Circulating Tank Heater. As an Automatic Storage Heater, all models are complete, self-contained water heating systems. It needs no separate storage tank, pump, wiring or elaborate piping network. When equipped with a mixing valve, it will supply 180°F (82°C) sanitizing and lower temperature general purpose hot water simultaneously. These models can be used either as a single unit or in multiples connected in series or parallel (recommended).

Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.

BRADFORD WHITE®
WATER HEATERS

Ambler, PA

For U.S. and Canada field service, contact your professional installer or local Bradford White sales representative.

Sales **800-523-2931** • Fax **215-641-1670** / Technical Support **800-334-3393** • Fax **269-795-1089** • Warranty **800-531-2111** • Fax **269-795-1089**

International: Telephone **215-641-9400** • Telefax **215-641-9750 / www.bradfordwhite.com**

BRADFORD WHITE-CANADA® INC. Sales / Technical Support **866-690-0961** / **905-238-0100** • Fax **905-238-0105** / **www.bradfordwhite.com**

Built to be the Best™

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